



1700

## RAW SEQUENCE LISTING

DATE: 03/05/2003

PATENT APPLICATION: US/09/784,985

TIME: 15:35:42

Input Set : N:\Crf3\RULE60\09784985.raw

Output Set: N:\CRF4\03052003\I784985.raw

1 <110> APPLICANT: Bayley, Hagan  
 2 Braha, Orit  
 3 Kasianowicz, John  
 4 Gouaux, Eric  
 5 <120> TITLE OF INVENTION: DESIGNED PROTEIN PORES AS COMPONENTS FOR BIOSENSORS  
 6 <130> FILE REFERENCE: 07917/062001  
 7 <140> CURRENT APPLICATION NUMBER: 09/784,985  
 8 <141> CURRENT FILING DATE: 2001-02-15  
 9 <150> PRIOR APPLICATION NUMBER: US/09/122,583  
 10 <151> PRIOR FILING DATE: 1998-07-24  
 11 <150> PRIOR APPLICATION NUMBER: US 60/053,737  
 12 <151> PRIOR FILING DATE: 1997-07-25  
 13 <160> NUMBER OF SEQ ID NOS: 2  
 14 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 293  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Staphylococcus aureus  
 20 <400> SEQUENCE: 1

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22	1				5					10					15	
23	Asn	Thr	Thr	Val	Lys	Thr	Gly	Asp	Leu	Val	Thr	Tyr	Asp	Lys	Glu	Asn
24				20					25					30		
25	Gly	Met	His	Lys	Lys	Val	Phe	Tyr	Ser	Phe	Ile	Asp	Asp	Lys	Asn	His
26			35					40					45			
27	Asn	Lys	Lys	Leu	Leu	Val	Ile	Arg	Thr	Lys	Gly	Thr	Ile	Ala	Gly	Gln
28		50					55					60				
29	Tyr	Arg	Val	Tyr	Ser	Glu	Glu	Gly	Ala	Asn	Lys	Ser	Gly	Leu	Ala	Trp
30		65				70					75				80	
31	Pro	Ser	Ala	Phe	Lys	Val	Gln	Leu	Gln	Leu	Pro	Asp	Asn	Glu	Val	Ala
32				85						90					95	
33	Gln	Ile	Ser	Asp	Tyr	Tyr	Pro	Arg	Asn	Ser	Ile	Asp	Thr	Lys	Glu	Tyr
34				100					105					110		
35	Met	Ser	Thr	Leu	Thr	Tyr	Gly	Phe	Asn	Gly	Asn	Val	Thr	Gly	Asp	Asp
36			115					120					125			
37	Thr	Gly	Lys	Ile	Gly	Gly	Leu	Ile	Gly	Ala	Asn	Val	Ser	Ile	Gly	His
38		130					135					140				
39	Thr	Leu	Lys	Tyr	Val	Gln	Pro	Asp	Phe	Lys	Thr	Ile	Leu	Glu	Ser	Pro
40		145				150					155				160	
41	Thr	Asp	Lys	Lys	Val	Gly	Trp	Lys	Val	Ile	Phe	Asn	Asn	Met	Val	Asn
42				165						170				175		
43	Gln	Asn	Trp	Gly	Pro	Tyr	Asp	Arg	Asp	Ser	Trp	Asn	Pro	Val	Tyr	Gly
44				180					185					190		

ENTERED

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45      Asn Gln Leu Phe Met Lys Thr Arg Asn Gly Ser Met Lys Ala Ala Asp
46              195                      200                      205
47      Asn Phe Leu Asp Pro Asn Lys Ala Ser Ser Leu Leu Ser Ser Gly Phe
48              210                      215                      220
49      Ser Pro Asp Phe Ala Thr Val Ile Thr Met Asp Arg Lys Ala Ser Lys
50              225                      230                      235                      240
51      Gln Gln Thr Asn Ile Asp Val Ile Tyr Glu Arg Val Arg Asp Asp Tyr
52              245                      250                      255
53      Gln Leu His Trp Thr Ser Thr Asn Trp Lys Gly Thr Asn Thr Lys Asp
54              260                      265                      270
55      Lys Trp Thr Asp Arg Ser Ser Glu Arg Tyr Lys Ile Asp Trp Glu Lys
56              275                      280                      285
57      Glu Glu Met Thr Asn
58              290
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 40
62 <212> TYPE: PRT
63 <213> ORGANISM: Staphylococcus aureus
64 <400> SEQUENCE: 2
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67      Asp Asp Thr Gly Lys Ile Gly Gly Leu Ile Gly Ala Asn Val Ser Ile
68              20          25          30
69      Gly His Thr Leu Lys Tyr Val Gln
70              35          40

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/784,985

DATE: 03/05/2003

TIME: 15:35:43

Input Set : N:\Crf3\RULE60\09784985.raw

Output Set: N:\CRF4\03052003\I784985.raw